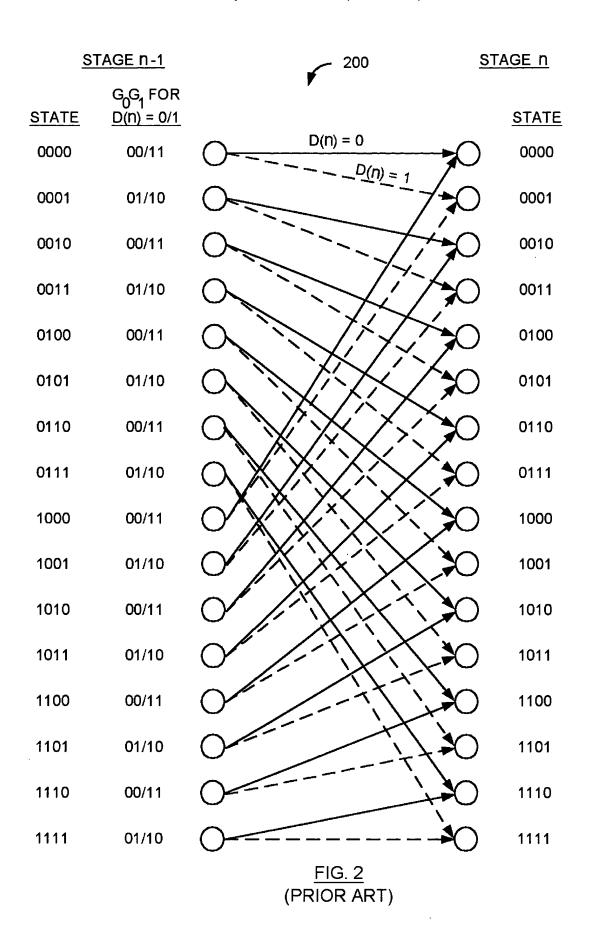


FIG. 1 (PRIOR ART)



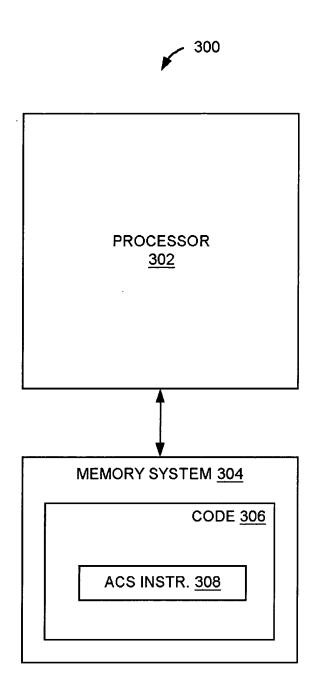
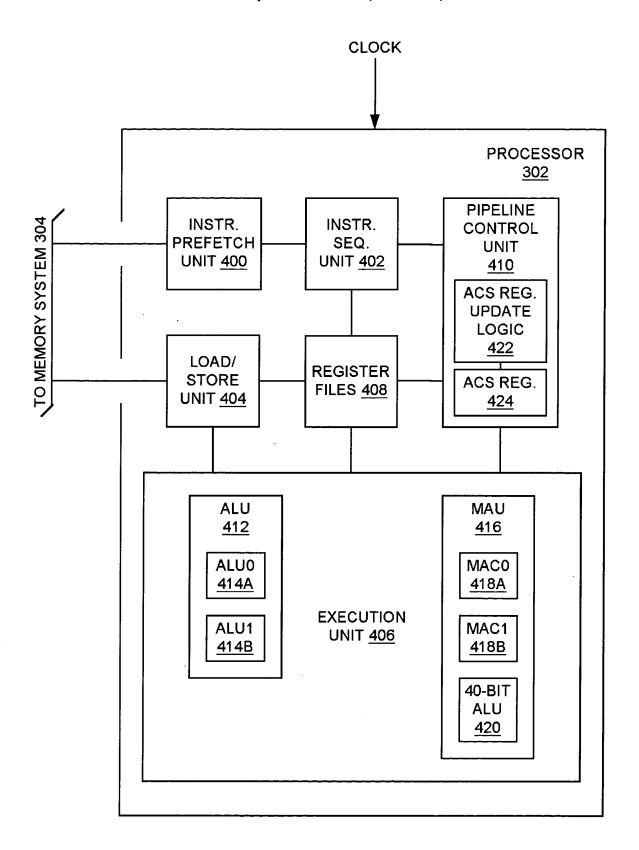


FIG. 3



CLOCK											
	FD	GR	RD	AG	МО	M1	EX	WB			
		FD	GR	RD	AG	M0	M1	EX	WB		
			FD	GR	RD	AG	МО	M1	EX	WB	

<u>FIG. 5</u>

Processor and Method For Convolutional Decoding Inventor(s): Danny W. Wilson, et al Attorney Docket: 03-0157 (4028-03100)

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OPCODE FIELD <u>600</u>	DESTINATION REGISTER FIELD 602	SOURCE REG. 1 FIELD 604	SOURCE REG. 2 FIELD 606
	1 1LLD <u>002</u>	1 12 20 004	1122000

FIG. 6A

REGISTER:

R0 XXXX

{R5, R4} 0X1123 0X0030

{R7, R6} 0X000A 0X0008

VITR 0X0000000

FIG. 6B

REGISTER:

R0 0X0038

{R5, R4} 0X1123 0X0030

{R7, R6} 0X000A 0X0008

VITR 0X0000001

FIG. 6C

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OPCODE FIELD 700 DESTINATION SOURCE SOURCE REGISTER REG. 1 REG. 2 FIELD 704 FIELD 702

FIG. 7A

PF	EGI	ТΩІ	·F	₽⋅
LAF	_ 🔾	9 1	ᆫ	١١.

R1 XXXX

{R5, R4} 0X8000 0XFF30

{R7, R6} 0X000A 0XFF00

VITR 0X0000001

FIG. 7B

REGISTER:

R1 0X7F00

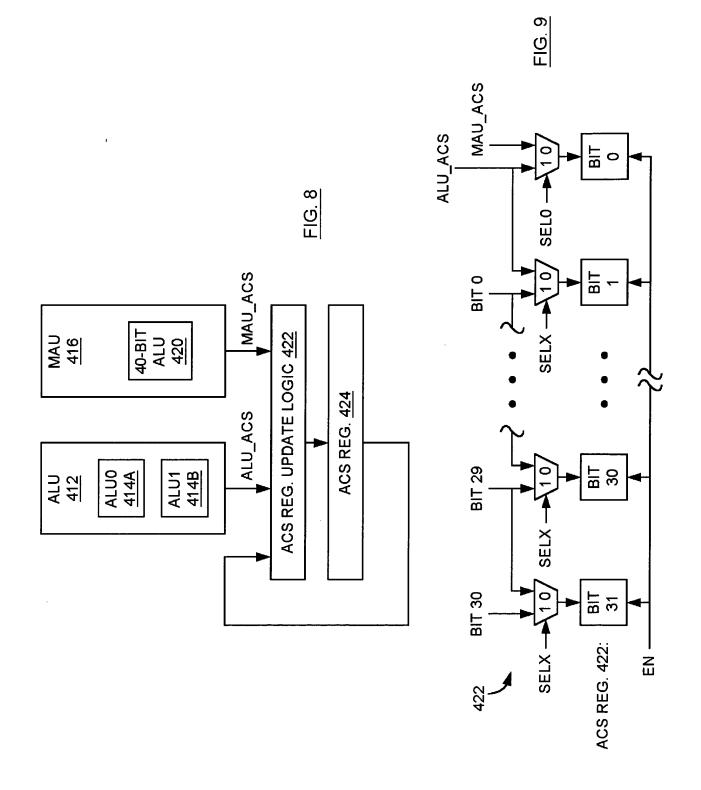
{R5, R4} 0X8000 0XFF30

{R7, R6} | 0X000A | 0XFF00

VITR 0X00000002

FIG. 7C

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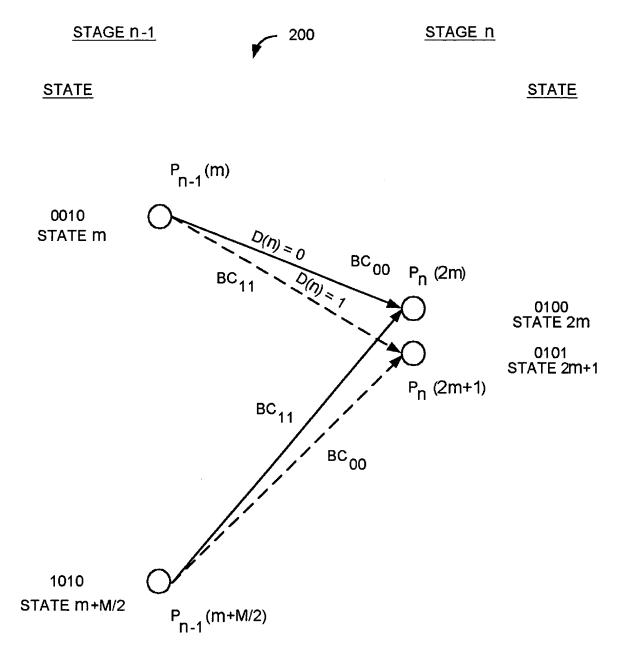


FIG. 10

1100

GENERATE COMPUTER PROGRAM CODE FOR A PROCESSOR **INCLUDING TWO OR MORE** ADD-COMPARE-SELECT (ACS) INSTRUCTIONS, WHEREIN STORAGE ELEMENTS SPECIFIED BY THE ACS INSTRUCTIONS ARE SELECTED SUCH THAT THE PROCESSOR WILL SIMULTANEOUSLY EXECUTE THE ACS INSTRUCTIONS. AND THE COMPUTER PROGRAM CODE, WHEN EXECUTED BY THE PROCESSOR. CAUSES THE PROCESSOR TO: (I) RECEIVE SYMBOLS OF THE CONVOLUTIONAL CODE IN SEQUENCE, (II) USE THE RECEIVED SYMBOLS TO BUILD A DATA STRUCTURE COMPRISING DATA INDICATIVE OF MOST LIKELY TRANSITIONS BETWEEN NODES OF A TRELLIS DIAGRAM AND ASSOCIATED INPUT VALUES, AND (III) USE THE DATA STRUCTURE TO PRODUCE THE INPUT VALUES CORRESPONDING TO THE RECEIVED SYMBOLS OF THE CONVOLUTIONAL CODE

1102

INITIATE EXECUTION
OF THE COMPUTER PROGRAM CODE
BY THE PROCESSOR

1104

Processor and Method For Convolutional Decoding Inventor(s): Danny W. Wilson, et al Attorney Docket: 03-0157 (4028-03100)

